

Applicant: Caluori et al.
For: Rotary Saw Cut Alignment Device

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2 1. A cut alignment device for a rotary saw having a motor which spins
3 ~~Δ~~ a cutting unit ^{said cutting unit including} which includes a rotary shaft driven by the motor, a circular blade having
4 a central aperture through which the shaft fits, and a blade mounting device for holding
5 the blade on the shaft, the cut alignment device comprising:

6 a battery power source carried by the cutting unit; and
7 a beam light source, operatively connected to said power source, and carried by
8 the cutting unit;

9 wherein said light source projects a light beam from the cutting unit directed along
10 the cutting edge of the blade to assist the operator in cutting accurately.

11 2. The cut alignment device of claim 1 further including a switch
12 between said power source and said light source for selectively applying power to said
13 light source.

14 3. The cut alignment device of claim 2 in which said switch is
15 centrifrically engaged to automatically power said light source when the shaft is spinning.

16 4. The cut alignment device of claim 1 in which said light source is
17 mounted within the blade mounting device, and the blade mounting device defines an
18 aperture from which the light beam emanates.

19 5. The cut alignment device of claim 4 further including a focusing

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1 lens aligned with said aperture for focusing the light from said light source.

2 6. The cut alignment device of claim 4 in which the blade mounting
3 device includes a blade lock washer held on the shaft against the blade, and wherein said
4 light source is mounted within said blade lock washer.

5 7. The cut alignment device of claim 1 in which said battery power
6 source is mounted within the blade mounting device.

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1 8. A cut alignment device for a rotary saw having a motor which spins
2 ^{, said cutting unit including}
3 ~~Δ~~ a cutting unit ^{which includes} a rotary shaft driven by the motor, a circular blade having
4 a central aperture through which the shaft fits, and a blade mounting device for holding
5 the blade on the shaft, the cut alignment device comprising:

6 ~~Δ~~ a battery power source mounted within the blade ^{mounting device} ~~lock washer~~;
7 a light source operatively connected to said power source and
8 ~~Δ~~ mounted within the blade ^{mounting device} ~~lock washer~~, wherein the blade ^{mounting device} ~~lock washer~~ defines an aperture
9 from which the light emanates;

10 and

11 a centrifrically-engaged switch between said power source and said
12 ~~Δ~~ light source and mounted within the blade ^{mounting device} ~~lock washer~~ to automatically power said light
13 source when the shaft is spinning;

14 wherein said light source projects a light beam from the aperture
15 directed along the cutting edge of the blade to assist the operator in cutting accurately.

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